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(FILE 'HOME' ENTERED AT 12:18:24 ON 13 AUG 2003)

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FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, MEDICONF' ENTERED
     AT 12:19:14 ON 13 AUG 2003
           7821 S ECYDSONE OR ECDYSTEROID
L1
L2
          13482 S ECDYSONE OR ECDYSTEROID
L3
            101 S L2 AND GLUCOCORTICOID
             82 DUP REM L3 (19 DUPLICATES REMOVED)
L4
             26 S L4 AND (RESPONSE ELEMENT)
L5
             26 SORT L5 PY
L6
L7
              1 S L4 AND AGGTCA
             78 S L4 AND RECEPTOR
              0 S L8 AND DOAMIN?
L9
L10
             42 S L8 AND DOMAIN?
L11
             42 SORT L10 PY
             17 S L4 AND MAMMAL?
1.12
T.13
             17 SORT L12 PY
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L13 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
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AN 2002:832917 CAPLUS

DN 137:347512

TI Construction of lentiviral vectors for inducible high level controlled expression of transfected genes in mammalian cells and therapeutical uses

SO PCT Int. Appl., 41 pp. CODEN: PIXXD2

IN Evans, Ronald M.; Saez, Enrique; Verma, Inder M.

The present invention provides inducible gene transfer systems and gene transfer vectors of lentivirus for the safe and effective transfer and expression of genes in mammalian cells, and for a very high level of control of expression of the transferred genes. The inducible gene transfer systems of the present invention may be lentiviral vectors comprising a self-inactivating 5' LTR, a modulator-responsive promoter, a nuclear import signal, a promoter operatively assocd. with a nucleic acid encoding a modulator-responsive receptor, an RNA stabilizing element, and a self-inactivating 3' LTR. Thus, the present invention provides vectors for packaging and delivering DNA to both dividing and non-dividing cells. The present invention also provides methods for treating subjects with the gene transfer systems of the present invention, and cells contg. the gene transfer systems.

	PATENT NO.			KI:	ND :	DATE			APPLICATION NO.					DATE			
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PI	WO 2002	20860	64	A	2	2002	1031		W	Ç 20	02-U	S122	12	2002	0417		
	WO 2002	20860	64	A	3	2003	0417										
	₩:	ΑE,	AG,	ΑLi,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
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		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
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- L13 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 2002:907167 CAPLUS
- DN 138:16588
- TI Method for modulating expression of exogenous genes in mammalian systems using modified ecdysone receptors for gene therapy
- SO U.S. Pat. Appl. Publ., 43 pp., Cont.-in-part of U.S. Ser. No. 974,530, abandoned.

 CODEN: USXXCO
- IN Evans, Ronald M.; No, David; Saez, Enrique
- AB The present invention provides various methods for modulating the expression of an exogenous gene in a mammalian subject employing

modified ecdysone (ecdysteroid) receptors in steroid inducible system. Modified ecdysone receptors can be in the form of homodimeric species or heterodimeric species comprising at least one silent partner of the steroid/thyroid hormone superfamily of receptors, along with an invention modified ecdysone receptor. There are provided nucleic acids encoding modified ecdysone receptors, modified ecdysone receptor response elements, gene transfer vectors, recombinant cells, and transgenic animals contg. nucleic acid encoding invention modified ecdysone receptor. The invention method is useful in a wide variety of applications where inducible in vivo expression of an exogenous gene is desired, such as in vivo therapeutic methods for delivering recombinant proteins into a variety of cells within a patient.

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2002177564 A1 20021128 US 1998-42488 19980316

- L13 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 1999:736508 CAPLUS
- DN 131:356081

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- TI Formulations useful for modulating expression of exogenous genes in mammalian systems, and products related thereto
- SO PCT Int. Appl., 90 pp.
- CODEN: PIXXD2
- IN Evans, Ronald M.; Saez, Enrique
- AB In accordance with the present invention, there are provided various methods for modulating the expression of an exogenous gene in a mammalian subject employing modified ecdysone receptors.

 Also provided are modified ecdysone receptors, as well as homomeric and heterodimeric receptors contg. same, nucleic acids encoding invention modified ecdysone receptors, modified hormone response elements, gene transfer vectors, recombinant cells, and transgenic animals contg. nucleic acids encoding invention modified ecdysone receptor.

	PATENT NO.			ND DATE				APPLICATION NO. DATE							
ΡI	WO 9958	155	A	 1 1999	1118							19990	0416		
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		•		GN, GW,	•		•								
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		IE, F													
	JP 2002											19990			
	US 2002	187972	2 A	1 2002	1212		US	200	1-94	19278	3	20010	907		

- L13 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 1998:789169 CAPLUS
- DN 130:21972
- TI Method for identification of modified receptor ligands and methods for using modified receptor to modulate expression of exogenous gene in mammalian cell
- SO PCT Int. Appl., 26 pp. CODEN: PIXXD2
- IN Forman, Barry M.
- AB Novel modified receptor proteins and ligands that bind to these receptor proteins are provided. Also included in the present invention are methods of identifying ligands that bind to such modified receptor proteins and methods of use of the modified receptor to modulate the expression of an exogenous gene in a mammalian subject. Claimed receptors

include the retinoic acid receptor, **glucocorticoid** receptor, mineralocorticoid receptor, thyroid receptors, **ecdysone** receptor, and estrogen-related receptors.

APPLICATION NO. DATE KIND DATE PATENT NO. PΙ WO 9852968 A1 19981126 WO 1998-US10671 19980521 W: CA, JP RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE EP 988315 20000329 EP 1998-926068 19980521 A1

EP 988315 A1 20000329 EP 1998-926068 19980521 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

- L13 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 1997:684510 CAPLUS
- DN 128:960
- TI Hormone-mediated methods for modulating expression of exogenous genes in mammalian systems using ecdysone receptor fusion proteins
- SO PCT Int. Appl., 105 pp.
 - CODEN: PIXXD2
- IN Evans, Ronald M.; No, David
- Mammalian expression systems using a modified ecdysone AB receptor to regulate expression of the foreign gene from an ecdysteroid-responsive promoter are described. Modified homo- and heterodimeric ecdysone receptors, modified ecdysterone response elements, transfer vectors and transgenic animals are described. Fusion proteins of ecdysone receptors and other hormone receptors contg. the ecdysone receptor ligand-binding domain, a DNA-binding domain, and the transcription activating domain of a mammalian hormone receptor, e.g. RXR are described. The ecdysone receptor may form a heterodimer with a receptor such as RXR by incorporating the peptides needed for their specific interaction. In addn., the DNA binding domain of the ecdysone receptor may be modified to that of another steroid hormone receptor. The system is an alternative to the prior art tetracycline regulation system that uses a eukaryotic regulation mechanism and a naturally lipophilic compd. that is easier to administer than tetracycline. The system can also be optimized to avoid complications such as adventitious induction of gene expression through the farnesoid X receptor. Construction of such a system in animal cell lines is described. Induction ratios of .gtoreq.100-fold were achieved with muristerone at concns. as low as 100 nM for a .beta.-galactosidase reporter gene. Transgenic mouse lines in which T cell-specific induction of a reporter gene by ecdysteroids was possible were constructed.

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KIND DATE .
      PATENT NO.
                                                   APPLICATION NO. DATE
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PΙ
      WO 9738117
                          A1 19971016 ·
                                                  WO 1997-US5330 19970327
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                           AA 19971016
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                                 19971029
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                                                    CN 1997-193597
                                 19990428
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      EP 910652
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                                                    JP 1997-536281
                                                                         19970327
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- L13 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 1997:72295 CAPLUS
- DN 126:85631
- TI A gene switch comprising an insect **ecdysone** receptor or fusion product allows gene control by external chemical inducer and has agricultural and pharmaceutical applications

SO PCT Int. Appl., 121 pp. CODEN: PIXXD2

IN Jepson, Ian; Martinez, Alberto; Greenland, Andrew James

The invention relates to an insect steroid receptor protein which is capable of acting as a gene switch which is responsive to a chem. inducer enabling external control of the gene. The Heliothis virescens ecdysone receptor and the Spodoptera exigua ecdysone receptor or glucocorticoid receptor can be used. Expression of insect hormone receptors in plant, fungus, bacteria, or mammal can be useful. Plasmid constructs encoding insect hormone receptor fusion proteins with transactivator proteins of other sources are also included. Various promoters in plasmid constructs are included in further variations.

	PATENT NO.					DATE				PLI	CATIO	ои ис	o. :	DATE				
PI		9637									19	96-GI	B119	5 5	1996	0520		
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			SG,	SI														
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	ΕP	8288	29		A.	1	1,998	0318		E	P 19	96-9	1430	9	1996	0520		
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	US	6379	945		В	1	2002	0430		U	S 19	96-6	5364	8	1996	0524		
	NO	9705	419		Α		1998	0122		N	O 19	97-5	419		1997	1125		

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- Namber	677	ecdysone or ecdysteroid	USPAT;	2003/08/13 14:03
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			USOCR	
-	442	(ecdysone or ecdysteroid) and (receptor\$5	USPAT;	2003/08/12 13:27
		or \$10element)	US-PGPUB;	
		•	EPO; JPO;	
			DERWENT;	i
	100		USOCR	2001/12/12 15:14
-	126		USPAT;	2001/12/13 15:14
		or \$10element)) and (DNA adj binding)	US-PGPUB; EPO; JPO;	İ
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		(0221020 , 72111	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
1			USOCR	
- ·	8	VgEcr	USPAT;	2002/11/01 13:39
		·	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
		(Fedurana an applications of the control of the con	USOCR	2002/11/01 13:41
-	86	(Ecdysone or ecdysteriod) and (rxr or usp)	USPAT; US-PGPUB;	2002/11/01 13:41
		·	EPO; JPO;	
		•	DERWENT;	
			USOCR	
_	39	((Ecdysone or ecdysteriod) and (rxr or	USPAT;	2002/11/01 13:41
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			DERWENT;	
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	1		EPO; JPO;	
	2	("6504082").PN.	DERWENT USPAT;	2003/08/12 13:23
-	2	(~6304062~).PN.	US-PGPUB;	2003/08/12 13.23
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			DERWENT	
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		(receptor\$5 or \$10element)	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
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_	235	EVANS NEAR ronald	USPAT;	2003/08/12 13:28
			US-PGPUB;	
	1		EPO; JPO; DERWENT;	
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_	22	(EVANS NEAR ronald) and ((ecdysone or	USPAT;	2003/08/12 13:41
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		\$10element))	EPO; JPO;	
			DERWENT;	,
			USOCR	
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1		binding)) and glucocorticoid\$15	EPO; JPO;	
			DERWENT;	
1_	211	((ecdysone or ecdysteroid) SAME	USOCR USPAT;	2003/08/12 13:57
-	211	(receptor\$5 or \$10element)) and	US-PGPUB;	2003/00/12 13:5/
!		((((ecdysone or ecdysteroid) and	EPO; JPO;	
		(receptor\$5 or \$10element)) and (DNA adj	DERWENT;	
		binding)) and glucocorticoid\$15)	USOCR	
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-	34		USPAT;	2003/08/12 13:57
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		US-20020182698-\$).did.) and		
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